

This figure displays a geological cross-section (C-C') illustrating the subsurface aquifer systems and well logs for the area between approximately 70 and 200 miles. The vertical axis represents depth in feet, ranging from 0 to -5,000 feet, with sea level indicated at 0 feet. The horizontal axis shows distance in miles, with a scale bar from 0 to 20 miles.

Aquifer Systems:

- Eutaw-Midville Aquifer:** Located near the surface, spanning from approximately -800 to -1,350 feet.
- Tallahatta-Gordon Aquifer:** A large, deep aquifer system extending from approximately -1,000 to -2,000 feet.
- Barnwell-Upper Floridan Aquifer:** Located at greater depths, around -2,000 to -3,000 feet.
- Other Confining Units:** Various confining units are labeled, such as the Eutaw-Cape Fear Confining Unit, Tuscaloosa-Fishburne Confining Unit, and Porters Creek-Ellenton Confining Unit.

Well Logs:

The figure includes several well logs along the cross-section, each with specific parameters:

- SC11:** Spontaneous potential (SP) scale: -80 to 0 millivolts; Resistivity (R) scale: 0 to 35 ohm meters.
- G30:** SP scale: -150 to 0 millivolts; R scale: 0 to 100 ohm meters.
- G29:** SP scale: -100 to 0 millivolts; R scale: 0 to 50 ohm meters.
- G10:** SP scale: -200 to 0 millivolts; R scale: 0 to 1,000 ohm meters.
- SC46:** SP scale: -200 to 0 millivolts; R scale: 0 to 200 ohm meters.
- SC40:** SP scale: -200 to 0 millivolts; R scale: 0 to 1,000 ohm meters.
- SC17:** SP scale: -30 to 0 millivolts; R scale: 0 to 30 ohm meters.
- SC16:** SP scale: -100 to 0 millivolts; R scale: 0 to 250 ohm meters.
- SC30:** SP scale: -210 to 0 millivolts; R scale: 0 to 275 ohm meters.
- SC27:** SP scale: -100 to 0 millivolts; R scale: 0 to 50 ohm meters.
- SC29:** SP scale: -50 to 0 millivolts; R scale: 0 to 50 ohm meters.
- SC26:** SP scale: -200 to 0 millivolts; R scale: 0 to 40 ohm meters.

EXPLANATION:

- Aquifer:** Shaded blue areas representing aquifer zones.
- Borehole number in figure 1 and table 2:** SC30.
- Gamma ray:** Scale in millivolts (0 to 210).
- Spontaneous potential:** Scale in millivolts (0 to -210).
- Well diameter exaggerated:** Indicated by a note below the well log.
- Electrical resistivity:** Scale in ohm meters (0 to 275).
- Sea level:** Indicated by a dashed line.
- Index number and location of sample containing significant paleontological data including Foraminifera, calcareous nannofossils, and planktonic and palynological assemblages:** Sample 3 is located at TD = 551 feet.
- Sidewall core location:** Indicated by a small circle on the well log.
- Cored sample:** Indicated by a small circle on the well log.
- Total depth of borehole:** TD = 1,356 feet.
- Approximate contact between provincial stages—Queried where uncertain:** Indicated by a question mark on the well log.
- Approximate contact between geohydrologic units—Queried where uncertain:** Indicated by a question mark on the well log.

Scale:

- Vertical scale greatly exaggerated.
- Horizontal scale: 0 to 20 miles.

GEOHYDROLOGIC SECTION C-C', AIKEN COUNTY TO BEAUFORT COUNTY, SOUTH CAROLINA

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